

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A computer readable medium storing a computer executable~~having a~~ data structure for managing reproduction of data streams having multiple reproduction paths, comprising:

a data area configured to store ~~a data stream, the data stream including~~ a plurality of transport stream packets of the data streams, the transport stream packets having respective packet identifiers (PID); and

a navigation area configured to store a playlist for managing playback of the data stream, the playlist including a playitem indicating a playing interval of the data stream, and the playitem including a packet identifier information field indicating the packet identifier (PID) of the transport stream packets associated with the playitem such that the packet identifier information field identifies a reproduction path among the multiple reproduction paths.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) The computer readable medium of claim 1, wherein the data streams are elementary data streams.

6. (Previously Presented) The computer readable medium of claim 5, wherein the data area stores the elementary data streams as transport streams.

7. (Previously Presented) The computer readable medium of claim 6, wherein the data area stores the data streams multiplexed together.

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) The computer readable medium of claim ~~[[18]]~~1, wherein the ~~plurality~~
~~of~~ data streams include video data streams.

14. (Currently Amended) The computer readable medium of claim 13, wherein the ~~plurality of~~ data streams further include ~~video data streams and~~ at least one of audio data streams, graphics data streams and subtitle data streams.

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended) A method of recording a data structure for managing reproduction of data streams having multiple reproduction paths recorded on a computer readable medium, comprising:

recording a plurality of transport stream packets of the data streams in a data area of the computer readable medium, the transport stream packets having respective packet identifiers (PID); and

recording a playlist including a playitem indicating a playing interval of ~~[[a]]~~the data stream in a navigation area of the computer readable medium, and the playitem including a packet identifier information field indicating ~~[[a]]~~the packet identifier (PID) of the transport stream packets associated with the playitem such that the packet identifier information field identifies a reproduction path among the multiple reproduction paths.

18. (Currently Amended) A method of reproducing a data structure for managing reproduction of data streams having multiple reproduction paths recorded on a computer readable medium, comprising:

reproducing a playlist including a playitem indicating a playing interval of ~~[[a]]~~the data stream~~streams~~ from a navigation area of the computer readable medium, and the playitem including a packet identifier information field indicating a packet identifier (PID) of a transport stream packets of the data streams associated with the playitem such that the packet identifier information field indentifies a reproduction path among the multiple reproduction paths; and
reproducing the transport stream packet having the packet identifier indicated by the packet identifier information field from a data area of the computer readable medium.

19. (Currently Amended) An apparatus for recording a data structure for managing reproduction of data streams having multiple reproduction paths on a computer readable medium, comprising:

~~an optical~~a pickup recording device configured to record a plurality of transport stream packets of the data streams in a data area of~~[[on]]~~ the computer readable medium~~[[;]], the~~
transport stream packets having respective packet identifiers (PID); and

a controller, operably coupled to the pickup, configured to control the ~~optical recording device~~pickup to record a playlist including a playitem indicating a playing interval of ~~[[a]]~~the data stream~~streams~~ in a navigation area of the computer readable medium,

wherein the controller is further configured to control the pickup to record and the playitem including a packet identifier information field in the playitem, the packet identifier information field indicating ~~[[a]]~~the packet identifier (PID) of the transport stream packets associated with the playitem such that the packet identifier information field identifies a reproduction path among the multiple reproduction paths.

20. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of data streams having multiple reproduction paths recorded on a computer readable medium, comprising:

~~an optical reproducing device~~ a pickup configured to reproduce a plurality of transport stream packets of the data streams recorded from a data area of ~~on~~ the computer readable medium ~~[[;]], the transport stream packets having respective packet identifiers (PID); and~~

a controller, operably coupled to the pickup, configured to control the ~~optical reproducing device~~ pickup to reproduce a playlist including a playitem indicating a playing interval of ~~[[a]]~~ the data streams from a navigation area of the computer readable medium,

~~and wherein the controller is further configured to control the pickup to reproduce the~~ playitem including a packet identifier information field in the playitem, the packet identifier information field indicating ~~[[a]]~~ the packet identifier (PID) of the transport stream packets associated with the playitem such that the packet identifier information field identifies a reproduction path among the multiple reproduction paths.

21. (New) The computer readable medium of claim 1, wherein the data streams are multi-angle data streams.

22. (New) The method of claim 17, wherein the data streams are multi-angle data streams.

23. (New) The method of claim 17, further comprising:

multiplexing the data streams together.

24. (New) The method of claim 18, wherein the data streams are multi-angle data streams.

25. (New) The method of claim 18, further comprising:

de-multiplexing the data streams stored multiplexed together.

26. (New) The apparatus of claim 19, wherein the controller is configured to control the pickup to record multi-angle data streams in the data area.

27. (New) The apparatus of claim 19, wherein the controller is further configured to multiplex the data streams together.

28. (New) The apparatus of claim 20, wherein the controller is configured to control the pickup to reproduce multi-angle data streams from the data area.

29. (New) The apparatus of claim 20, wherein the controller is further configured to de-multiplex the data streams stored multiplexed together.